Date 7/28/89

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Document No.: WHG-CM-7-5

Title: Environmental Compliance Manual

Revision Release No.:

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I have personally received the revisions identified for release in this package and assume full responsibility for updating my manual in accordance with instructions.

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TITLE:	Approved by	Division
NEW_AND_MODIFIED FACILITIES	R. E. Lerch, Mana Environmental Div	2 ager vision

- 1.0-PURPOSE

The purpose of this Part is to assure compliance with the environmental requirements applicable to the construction of new facilities or the modification of existing facilities.

2.0 SCOPE

The provisions of Part Q apply to all new facilities and facilities that are being modified on the Hanford Site that are under the jurisdiction of WHC.

3.0 RESPONSIBILITIES

- 1. Project Management shall:
- b. Request Environmental Engineering and Technology to provide an environmental evaluation, environmental assessment, or environmental impact statement and/or, if State approvals or permits are required, a State Environmental Policy Act Checklist for new facilities or for modification of existing facilities.
 - A baseline study in accordance with the requirements of Part

 O, paragraph 5.0.f on pre-operational environmental surveys

 may also be needed. This action should take place during

 the process leading up to the Conceptual Design Report (CDR).

 See also WHC-CM-6-12, "Projects Department Procedures," P-13,

 "Environmental Evaluation."

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- c. Coordinate with and obtain the assistance of Environmental Pollutant Discharge Elimination (NPDES) permits, Prevention of Significant Deterioration (PSD) permits, Part A and Part B permits, and any other environmental permits that may be required. This should take place during the CDR stage to ensure enough time for accomplishing the necessary permit applications. --- engineers should be aware that obtaining necessary permits is not a trivial exercise. The process involves generating and submitting a permit application to a regulatory agency, review by the agency, possible revisions requested by the agency, and permit writing by the agency listing the operating parameters of the facility. Cost and schedule may be impacted if adequate consideration is not given to this process by the and permit writing by the agency listing the operating parameters of the facility. Cost and schedule may be impacted if adequate consideration is not given to this process by the project engineer.

 d. Obtain a Cultural Resource Clearance for any excavation or disturbance of land as defined in Part W, "Historical Site Preservation."

 - e. Transport and dispose of all nonradioactive solid wastes resulting from construction activities at the Hanford Landfill.
- designs, design modifications, and startup plans to ensure that environmental concerns have been adequately addressed and resolved... This review shall be limited to Impact Level 1, 2, and 3 documents
 - 2. Environmental Engineering and Technology shall:
- and National Environmental Policy Act (NEPA) documentation
 - b. Approve local, state, and federal permit applications
- c. Provide notification of start-up to the EPA and the Benton, Franklin, Walla Walla Counties Air Pollution Control Authority of a new facility that is a source of air pollution. ... This notification is a two-step process which includes:
- The anticipated date of initial start-up of the source at least 100-days-prior to-such date
 - A notification of the actual date of initial start-up of the source within 15 days after such date.
- ----- |--- modifications, and startup plans.

1. Determination of Need for an Environmental Evaluation, Environmental

Assessment, or Impact Statement

The initial step in the environmental process for new facility construction or modification of an existing facility is to determine is the Environmental Engineering and Technology.

The DOE-RL authority to make NEPA determinations of appropriate level of documentation only applies to those DOE-Headquarters (DOE-HQ) Program sponsors (Assistant Secretaries) that have delegated that authority to Managers of Field Offices.

Specifically, Defense Projects, Management and Administration and Fossil Energy have delegated the authority. All others, including Nuclear Energy and Energy Research, have kept authority.

For those programs that have not delegated to the Field Offices, all NEPA determinations must be done by the sponsor organizations (e.g. Nuclear Energy) with concurrence of Environmental and Health

and General Council. The DOE-RL (and WHC) action would be to provide the sponsor organization with an Action Description Memorandum recommending the appropriate level of NEPA documentation.

For those programs that have delegated to the Field Office (e.g., Defense Projects), DOE-RL-may do lower tier determinations (i.e., categorical exclusions, Memorandum-to-File). However, higher tier determinations (i.e., Environmental Assessment or Environmental Impact Statement) still must be resolved by the program sponsor with Environmental and Health and General Council. An Action Description Memorandum would be sent to the appropriate Tattanan und Harring DOE-HQ-sponsor recommending either an Environmental Assessment or an Environmental Impact Statement.

In DOE-RL, the Manager has delegated authority to the Assistant
Manager for Safety, Environment and Security (AMS) who delegated
to the Director of Safety and Environment.

Basis: The requirements for and the process of complying with the National Environmental Policy Act (NEPA) are found at DOE-RL Order 5440.1A, "Implementation of the National Environmental Policy Act at the Richland Operations Office "

2. Liquid Effluents

Requirements for new facilities or modifications to existing facilities relating to water discharges are summarized below:

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a. New and modified facilities shall utilize Best Available ------Technology (BAT) as defined in WHC-EP-0137.

Basis: WHC Environmental Division policy reflecting the substantive requirements of WAC 173-216.

be minimized and not exceed the limits in Part E of this manual.

Basis: See the basis for Part E, paragraphs 5.0 through 11.0.

c. Radioactive liquid waste discharges from facilities shall be minimized and not exceed the limits in Part F of this manual.

Basis: See the basis for Part F, paragraphs 4.0 through 10.0.

d. Discharges of nonradioactive regulated substances to the Columbia River require that a NPDES permit be obtained prior to start up.

Basis: This requirement is from 40 CFR 122.1(b).

soil when designing new facilities.

> Basis: WHC Environmental Division policy developed to protect the ground water. In general, the waste assimilative capacity of a river, such as the Columbia, is much greater than the less mobile ground water.

f. Discharges of liquid effluents to the soil column shall be permittable under WAC 173-216. Modified sources shall be upgraded to include BAT in accordance with the "Plan and Schedule to Discontinue disposal of Contaminated Liquids into the Soil Column at the Hanford Site," DOE-RL, March 1987, for the purpose of meeting the substantive requirement of WAC 173-216. The goal of BAT installation is to eliminate the discharge of contaminated liquid waste to the soil column.

Basis: Westingnouse Environmental of responding to the intent of WAC 173-216.

--- | 3. Gaseous Effluents

following requirements:

- set in 40 CFR 52.21, "Best Available Control Technology (BACT)"
 shall be used and a PSD application shall be submitted. These levels are:
 - (1) Carbon monoxide: 100 Tpy*(2) Nitrogen oxides: 40 Tpy

 - (3) Sulfur dioxide: 40 Tpy(4) Particulate matter: 25 Tpy
 - (4) Particulate matter: (5) Ozone: 40 Tpy of volatile organic compounds
 - (6) Lead: 0.6 Tpy
 - (7) Asbestos: 0.007 Tpy
 - ____ (8) Beryllium: 0.0004 Tpy
 - (9) Mercury: 0.1 Tpy
 - (3) results. 3. The chloride: 1 Tpy
 - (II) Fluorides: 3 Tpy
 - (12) Sulfuric acid mist: 7 Tpy
 - (13) Hydrogen sulfide: 10 Tpy
 (14) Total reduced sulfur (including H₂S): 10 Tpy
 - (15) Reduced sulfur compounds (including H₂S): 10 Tpy (16) Arsenic: any amount (17) Benzene: any amount

 - (18) Radionuclides: any amount

Basis: This requirement is from 40 CFR 52.21.

activities shall be minimized to meet the requirements contained in Part C of this manual, Table C-1.

Basis: This requirement is from 40 CFR 52.21.

New and modified sources shall be designed to meet the requirements of Part D, paragraph 5.0.b.l, during normal operations. In thesource radionuclide emission projections do not meet the requirements of Part D, paragraph 5.0.b.1, Project
Management shall submit the ALARA evaluation used to determine the Management shall submit the ALARA evaluation used to determine the extension of the new source and the projected facility emissions to Regulatory Compliance for review. control value for this facility based on ALARA and external regulatory concerns.

Basis: See Part D, paragraph 5.0.b.1.

^{*}Note: tons per year (Tpy).

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NEW-AND MODIFIED FACILITIES

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----4: --Solid-Waste-Requirements

facilities shall meet the following requirements:

- a. Nonradioactive nondangerous solid wastes shall be disposed of at the Central Landfill in accordance with the requirements contained in Part G.
- _____b_ Radioactive solid wastes are covered by Part H.
 - c. Dangerous wastes are governed by Part I.
 - d. Radioactive mixed solid wastes have special requirements --covered-in-Part J.

Basis: See the referenced Parts for the technical basis.

5. Final Facility Permits (Part B Permits).

(Part B) permit from the State of Washington. Physical construction cannot start until a finally effective RCRA permit has been received. The contents of a Part B permit application are outlined in WAC 173-303-806. The information and data requirements of a Part B permit application are extensive and include a detailed description of the facility, geological data, training programs, and closure plan. For new facilities a notice of intent to submit an application must be filed.

Basis: Reflects the requirements found at WAC 173-303-806 and 173-303-281.

5.0 REFERENCES

- 2. 40 CFR 52, "Approval and Promulgation of Implementation Plans."
- Pollutant Discharge Elimination System.
 - -----4.--WAC-173-216, "State Waste Discharge Permit Program."
- - 6. WHC-EP-0137, Best Available Technology (BAT) Guidance Document.

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ENVIRONMENTAL COMPLIANCE MANUAL Effective Date Organization

August_10,_1989 Environmental Division

TITLE:

Approved by

-HISTORICAL SITE PRESERVATION

R. E. Lerch, Manager Environmental Division

1.0 PURPOSE

The purpose of Part-W is to establish the requirements for the preservation of historical sites and cultural resources in connection with WHC activities.

2.0 SCOPE

The second secon

The provisions of this part apply to any excavation or disturbance of land greater than 5.0 ft in area. This 5.0 ft exclusion does not apply to areas within 400 meters of the Columbia River, or land generally comprising Gable Mountain, Gable Butte, Rattlesnake Mountain or Rattlesnake Springs. Any disturbance of the land in these areas requires a Cultural Resource Clearance (CRC), as described in paragraph 4.0, below. No area of the Hanford Site is excluded from this review.

3.0 RESPONSIBILITIES

cognizant engineers) shall:

- 2. Submit the form, Figure W-1, Request for Cultural Resources Review, accompanied by a map identifying the area to be disturbed. This information shall be submitted to the Manager, Cultural Resources Project, 375-6873, MSIN K5-09.

4.0 REQUIREMENTS

The following requirements shall be met:

l. Disturbance includes, but is not limited to, leveling, road or utility line construction, excavation of pits, foundations and trenches, quarrying and borrow of rocks and soils, seismic testing, and stockpiling of earth. In general, any activity requiring an excavation permit shall be reviewed.

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- Submission of formal requests may be preceded by a phone call; however, 60 days lead time shall be required. Excavation shall not proceed without this approval.
- 3. Variances or waivers to this process may be granted. All such requests shall be directed to Manager, Cultural Resources Project, Office of Hanford Environment, Pacific Northwest Laboratory.
 - 4. No areas are exempted from the provisions of this Part. Highly industrialized areas may only be waivered on a case-by-case basis.
 - Emergency repair work, for emergencies as defined in WHC-CM-4-1, shall be obtained after the fact.
 - Basis: 1. Letter, July 10, 1987, A. J. Rizzo (DOE-RL) to Process."
 - 2. Internal Letter November 3, 1987, M. T. Black to J. M. Atwood, et.al., "Cultural Resource Review."

5.0 REFERENCES

WHC-CM-4-1, WHC Emergency Plan.

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REQUEST FOR CULTURAL	RESOURCES	REVIEW	HCRC &
roject Name			L
equesting Organization and Division			
ubmitter (Name, Address, and Telephone)			
ate of Request	Date Findings R	Requested By	
rimary Contact Person		Phene	
econdary (If primary not available)		Phone	
raject Development Stage: Site Selection		Construction [Net Applicable
reject Description (narrative may be attached)			
•			
			·
		•	
• •			
raject Dimensions			
	•		4 4
opth of Excavation		Net Applicable	<u> </u>
ecation of Project: 100 Area 200 Ar	• <u>∗</u> 300 A	rea 🔲 400 Ar	ea. 🔲 600 Area
	3000	Área 🔲 Other	
laps Enclosed: USGS tope showing project location	(or other suitable n	nap to assist in finding	the project site)
Scale drawing showing construction	, parking, topsoil si F. lines, etc)::access	torage areas, equipme	nt stockpiles,
Other	,,		ieer 3,

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ENVIRONMENTAL COMPLIANCE MANUAL
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TITLE:

CONSIDERATION OF PROTECTED WILDLIFE,

ENDANGERED SPECIES, AND INTRODUCTION

OF EXOTIC SPECIES

AE Lock

Approved by

R. E. Lerch, Manager Environmental Division

- 1.0 PURPOSE

The purpose of Part X is to establish standards for the treatment, handling, and disposition of protected wildlife and endangered and exotic species on the Hanford Site by WHC employees.

2.0 SCOPE

The provisions of this part apply to:

- 1. The taking* of any animal, or part thereof, living or dead, on the Hanford Site, whether or not such taking is done within the normal performance of work.
- 2. Modifications of habitat which adversely affect endangered or protected species.
- 3. Introduction of exotic species of plants or animals to the Hanford Site.

_____3.0_ RESPONSIBILITIES

- 1. Operations/project managers shall:
- a. Assess the potential of their project/operations for damage to species protected under this part. For new projects, such consideration should be taken as part of the environmental document appended to the Conceptual Design Report (CDR).
- b. Take all reasonable measures to conserve and preserve existing habitat not withstanding that there are no Federal-listed plant species are legally afforded protection.
- c. Investigate, evaluate, and control the impact of exotic plant
 or animal species on Site environs. This includes organisms
 introduced for the purposes of soil stabilization/revegetation,
 or pest control. Additional documentation may be required
 under the NEPA. See Part Q of this manual.

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- the Manager, Environmental Protection or Patrol, of any protected or threatened, and endangered animal or plant listed in Table X-1
- 3. Environmental Protection shall be responsible for proper notification regarding taking of wildlife protected under this Part to designated state or Federal agencies.

4.0 REQUIREMENTS

- 1. No employee of WHC shall:

Basis: - WAC- 232-12-274, - "Wildlife Code of the State of Washington."

b. Take or otherwise reduce to possession any wildlife species

without appropriate Federal and/or state permits or approvals

authorizing such activity and have the actual need to perform
such activity as part of the employee's job assignment.

-----Basis: WAC 232-12-274,--"Wildlife Code of the State of Washington."

c. Cut any tree or modify any habitat used by wildlife prior to filing a workplan with and obtaining approval from Environmental Protection. Environmental Protection will determine if the planned work is compatible with 16 USC 1531 before giving approval. See Parts O and Q of this manual.

Basis: The reference for this requirement is 16 USC 1531, "Endangered Species Act of 1973.

d. Release on the Hanford Site any exotic species of plant or animal, including domestic species, for any purpose without specific approval from Environmental Protection.

Basis: This requirement is from EO 11987, "Exotic Organisms," May 24, 1971.

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5.0 REFERENCES

- 1. Executive Order 11987, "Exotic Organisms."
- _2._ 16_USC_1531, _"Endangered Species Act of 1973."
- 3. WAC 232-12-274, "Wildlife Code of the State of Washington."

Table X-1. Endangered, Threatened, and Sensitive Animals on the Hanford Site. (Sheet 1 of 7)

Taxa	Status ^ā	Relationship to the Hanford Site
Washingtor	n-State Status o	f-Special Bird Species
		ford Reach of the Columbia st on the Hanford Site
Bald Eagle Haliaeetus leucocephalus	STFT	A regular winter visitor to the Columbia River on the Hanford Site. Occasional forager of sagebrush/grass habitat.
- American White Pelican - -Pelecanus erythrohynchus 		 A regular fall and winter visitor to the Columbia River on the Hanfor Site.
Black-Crowned Night Hero Nycticorax nycticorax	on PM	A migrant and occasional forager along the Columbia River and at waste ponds on the Hanford Site.
Horned Grebe Podiceps auritus		A common migrant along the Hanford reach of the Columbia River; occasional visitor to waste ponds.
Red-necked Grebe Podiceps grisegena	PM ·	Uncommon migrant along the Hanford reach of the Columbia River.
Western Grebe Aechmophorus occidental	P M <u>is</u> · · · · · · · · · · · · · · · · · · ·	Common migrant along the Hanford reach of the Columbia River.
Clark's Grebe Aechmophorus clarkii	PM	Common migrant along the Hanford reach of the Columbia River.
Trumpeter Swan Cygnus-buccinator	PM	-Uncommon migrant along the Hanford reach of the Columbia River.
Aleutian Canada Goose Branta canadensis -leucopareia	FE	Rare migrant and winter resident along the Columbia River; likely occurs along the Hanford Reach.
OspreyPandion haliaetus		Common visitor to the Hanford Reach of the Columbia River; no nesting records for the Hanford

Site.

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HELENT WINE	
Pichton	

Buteo realis

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Taxa	·· Status ^a	Relationship to the Hanford Site
Peregrine Falcon Falco peregrinus	SE FE	Migrant and winter resident along the Columbia River; several sightings along the Hanford Reach.
Black-necked stilt Himantopus mexicanus	PM	Uncommon migrant along the Hanford reach of the Columbia River and waste ponds.
Caspian-tern Sterna caspia		Common migrant and summer resident along the Hanford Reach of the Columbia River.
Arctic-tern Sterna paradisaea	- · · - PM	Rare migrant along the Hanford Reach of the Columbia River.
Black tern Chlidonias niger	PM	Reach of the Columbia River.
Chlidonias niger Birds ass	sociated with th	Reach of the Columbia River. He Hanford Reach of the nest on the Hanford Site Nests in trees along the Columbia River; Forages along the river and occasionally at waste ponds; a
Chlidonias niger Birds ass Columbia R Great Blue Heron	sociated with the	Reach of the Columbia River. He Hanford Reach of the nest on the Hanford Site Nests in trees along the Columbia River; Forages along the river and
Chlidonias niger Birds ass Columbia R Great Blue Heron Ardea herodias Common Loon Gavia immer	sociated with the liver that also in the live	Reach of the Columbia River. He Hanford Reach of the hest on the Hanford Site Nests in trees along the Columbia River; Forages along the river and occasionally at waste ponds; a year-round resident. Infrequent nester along the Columbia River on the Hanford site; common —

Ferrunginous Hawk - - Occasional forager and nester on the

Hanford Site.

FC

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Table X-1. Endangered, Threatened, and Sensitive Animals on the Hanford Site: (Sheet 3 of 7)

Taxa	Status ^a	Relationship to the Hanford Site
Swainson's Hawk	PS _	Common forager and nester on the
<u>Buteo swainsoni</u>	FC	Hanford Site.
Prairie Falcon <u>Falco mexicanus</u>	PM	Common forager and nester on the Hanford Site.
Turkej vulture	PM	Uncommon migrant and summer
<u>Cathartes aura</u>		resident on the Hanford Site.
Northern goshawk Accipiter gentilis	P\$	Common fall and winter visitor to riparian habitats on the Hanford
Colden conle	DC	Site. Common migrant and resident on the
- Aquila chrysaetos		Common-migrant and resident on the Hanford Site. No records of
National States		nesting.
-Mowlin	PM	
<u>Falco columbarius</u>		Site.
 	pM -:	
Falco rusticolus	•••	to the Hanford Site; most observations from the ALE Reserve.
Sage-Grouse	PS	Uncommon -resident on-the Hanford
Centrocercus urophasianus		Site. Adults and broods have been observed on the Arid Lands Ecology
	-	Reserve: a lek was present on the
		USF&W Saddle Mt. refuge prior to 1985.
	- SE	A common migrant across the Hanford
- <u>Grus canadensis</u>		Site. Rarely observed stopping over on the Hanford Site.
Long-billed Curlew	PM	A common forager and nester in
Numenius americanus	FC	Sagebrush/grass habitats.
 Flammulated Owl	PS	A rare migrant on the Hanford Site;
Otus flammeolus	- -	one observation on the ALE reserve.
Snowy Owl:	PM	A rare migrant on the Hanford Site;
Nyctea scandiaca		several observations.
Punnowing Owl	- · DC	A common forager and nester in

Burrowing Owl

- · ·	Lewis' woodpecker <u>Melanerpes lewis</u>	PS	A rare migrant on the Hanford Site.
ACTION OF THE STATE OF THE STAT	Mammals ass	ociated witi	n the Hanford Site
With the same of t	Merriam's shrew Sorex merriami		Uncommon inhabitant of upper elevations of Rattlesnake mountain of the ALE Reserve.
	Pallid Bat Antrozous palliuds	PM	Inhabits deserted buildings and cliffs on the Hanford Site.
			Prior to the 1984 fire, this small rabbit occurred on Rattlesnake Mountain on the ALE Reserve. No records of occurrence since 1984.
is er orunus eurup	Northern Grasshopper Mouse -Onychomys leucogaster	PM	Common in Sagebrush/grass habitats on the Hanford Site; particularly abundant on the ALE Reserve.
er = 1,000	-Sagebrush-Vole Lagurus curtatus		Common at higher elevation on Rattlesnake Mountain on the ALE Reserve. Found mostly in bunchgras dominated habitats.

ENVIRONMENTAL COMPLIANCE MANUAL

OF EXOTIC SPECIES

Woodhouse's toad

Bufo woodhousei

-Night- Snake------PM

Hypsiglena torquata --- on the Hanford Site.

Striped whipsnake PS Uncommon in Sagebrush/grass habitats

- Masticophis taeniatus — Where lizards (their chief food)

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Table X-1. Endangered, Threatened, and Sensitive Animals on the

Hanford Site. (Sheet 4 of 7)

Section

-----Uncommon-along-the-Hanford-Reach

are not abundant.

of the Columbia River and riparian

Common around basalt outcroppings

areas of the ALE Reserve.

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ENVIRONMENTAL COMPLIANCE CONSIDERATION OF PROTECTE ENDANGERED SPECIES, AND I OF EXOTIC SPECIES	D WILDLIFE, NTRODUCTION	Hanual Section Page Effective Date	Part X, REV 8 of 1
Table X-1. Endanger Hanford	ed, Threatened Site. (Sheet	d, and Sensitive Anim 5 of 7)	als on the
	Status ^a	Relationship_to_t	he Hanford Site
Inve	rtebrates of	the Hanford Site	
Columbia River Limpet Lanx nuttalli	PM	Common inhabitant Reach of the Colu	of the Hanford Imbia River.
Columbia River Spire Snai Lithoglyphus columbiana	1 PM	Common inhabitant Reach of the Colu	
Short-tailed black swallowtail Papilio indra	PM ···-	·····Inhabits most of	the Hanford Site
Fish of the	Hanford Reac	h of the Columbia Riv	/er
Mountain Sucker Catostomus platyrhynchus	PM	Uncommon inhabita	ant of the Hanfor Imbia River.
Sand Roller Percopsis transmontana		Common inhabitant Hanford Reach.	of Pool areas o
Piute Sculpin Cottus beldingi	PM	Abundant inhabite cobble areas of	ant-of-riffle and the Hanford Reach
Reticulate Sculpin Cottus perplexus		Uncommon habitat Reach of the Col	

Columbia-Milk-VetchThreatened	A local endemic with its major
Astragalus columbianus C	populations located on the Yakima
Barneby	Firing Center; small populations
	also exist on the Hanford boundary
	adjacent to the Firing Center.

Persistentsepal_ Endangered
Yellowcress ____C_____
Rorippa columbiae
Suskd. ex Howell

Known to occur on the wetted shoreline of the Columbia River on the Hanford site; not likely to occur elsewhere.

EN	VIRONM	ENTAL	COMP	LIANCE	MAN	UAL	
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Table X-1. Endangered, Threatened, and Sensitive Animals on the Hanford Site. (Sheet 6 of 7)

The second second	Taxa	Status ^ā	Relationship to the Hanford Site
-	Thompson's Sandwort Arenaria franklinii Doug. var. Thompsonii Peck		Exists as <u>A. franklinii</u> on stabilized sand dunes on the Hanford Site; taxonomic status is currently under consideration.
	- Hoover's Desert	Threatened	A local endemic in Yakima, Benton, Grant, and Kittitas Counties; not known from the Hanford Site.
	Gray Cryptantha Cryptantha leucophea Dougl. Pays	-Sensitive	Occurs on stabilized sand dunes of the Hanford Site near the WYE barricade; occurrence in other areas has not been established.
-	Piper's Daisy Erigeron piperianus Cronq.		A local endemic, occurs on the Arid Lands Ecology Reserve; occurrence in other areas has not been established.
-	Tooth-Sepal Dodder Cuscuta denticulata Englem.	Monitor	Recently found in Benton County; parasitic on sagebrush; may occur the the vicinity of the Hanford Site.

Reference Definitions of special classifications of animal species:

FE--Federally designated endangered species.

FT--Federally designated threatened species.

FC--Federally designated candidate species.

PE--<u>Proposed Endangered</u>. A species proposed for consideration for State Endangered classification.

PS--<u>Proposed Sensitive</u>. A species proposed for consideration for State Sensitive classification.

PT--<u>Proposed Threatened</u>. A species proposed for consideration for State Threatened classification.

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Table X-1. Endangered, Threatened, and Sensitive Animals on the Hanford Site. (Sheet 7 of 7)

SE--State Endangered. A species which is seriously threatened with extirpation within the State of Washington. These are classified by the State Game Commission as endangered wildlife (WAC 232-12-014). Protected from taking due to damage (RCW 77.12.265); trafficking (RCW 77.16.040); and possession, control, or destruction of nests or eggs (RCW 77.16.120).

SM--State Monitor. A species of special interest because of public appeal, need for special habitats during a portion of their life cycle, status as indicators of environmental quality, population status that is mostly unknown, taxonomic status in need of further study, or justifiably removed from Endangered, Threatened, or Sensitive classification.

SS--State Sensitive. A species that could become threatened if current water, land, and environmental practices continue. Classification by the State Game Commission as Protected Wildlife and protected from possession, control, or destruction of nests or eggs.

ST--State Threatened. A species that could become endangered without management or removal of threats. These species are classified by the State Game Commission as Protected Wildlife (WAC 232-12-011). Protected from possession, control, or destruction of nests or eggs (RCW 77.16.120).

Reference Definitions of special classifications of plant species:

<u>Endangered</u>. A vascular plant taxon in danger of becoming extinct or extirpated in Washington within the near future if factors contributing to its decline continue. These are taxa whose populations are at critically low levels or whose habitats have been degraded or depleted to a significant degree.

<u>Local Endemic</u>. A taxon restricted to a limited geographical area, usually with a single county or several adjacent counties.

-- Monitor. --- A--vascular -- plant -- taxon -- of -- potential concern because of uncertain taxonomic status or paucity of information concerning -- distribution; or a taxon that is actually more abundant or less threatened than previously thought.

<u>Sensitive</u>. A vascular plant taxon, with small populations or localized distribution—within—the—state,—that is not presently endangered or threatened, but whose populations and habitats will be jeopardized if current land use practices continue.

Threatened. A vascular plant taxon likely to become endangered within the near future in Washington if factors contributing to its population decline or habitat degradation or loss continue.

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Organization Environmental

Division

ENVIRONMENTAL COMPLIANCE MANUAL

TITLE:

ASBESTOS AND POLYCHLORINATED BIPHENYLS

Approved by

R. E. Lerch, Manager ---Environmental Division

T.O. PURPOSE

The purpose of this Part is to establish WHC standards for asbestos and polychlorinated biphenyls (PCBs) on the Hanford Site. These standards are intended to ensure that WHC personnel control, handle, and dispose of these materials in a manner that:

- - - requirements.

2.0 SCOPE

1. Asbestos

This part applies to the removal of asbestos from facilities and facility components and the subsequent disposal of the asbestos. This part complements WHC-CM-4-3, "Industrial Safety Standards," This part complements WHC-CM-4-3, "Industrial Safety Standard C-3, "Asbestos Control," which covers the safety aspects of asbestos removal.

2. PCBs

<u>lames. The responsibilities and requirements of this part apply to the </u> following radioactive—and—nonradioactive equipment and materials containing two (2) parts per million (ppm) PCBs or more.

- a. Hydraulic and heat transfer systems
- b. Materials (rags, debris, soil, etc.)
 c. Transformers, capacitors, and other electrical equipment
 d. Waste oils.

_____*Two_(2) ppm_using ASTM_method_D-4059-86 or one (1) ppm_using EPA method 60/4-81-045.

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The requirements of this part are intended to supplement WHC-CM-4-3, Industrial Safety Standards, Standard C-1, "Polychlorinated Biphenyls (PCB)" which is concerned with the control of employee exposure to PCBs.

3.0 RESPONSIBILITIES

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UB3.

- Building Managers and Operations Managers shall:
- ---- a. Ensure that all waste asbestos materials are removed, handled, packaged, labeled, stored and disposed of in compliance with -----the requirements of this standard.
- . Maintain the necessary inventory, storage, clean up, and disposal records for waste asbestos materials and items and materials containing PCB.
 - c. Ensure that personnel handling asbestos materials and PCB items and materials containing PCB have received proper training.
- d. Ensure that all items and materials containing PCB within their facility or cognizance are handled and controlled in accordance --- with the requirements of this part.
 - certified free of PCB.
 - or release of PCBs:
 - (1) Environmental Protection shall be immediately notified.
 - (2) Any leak to electrical equipment that requires equipment inspection and/or repair shall be immediately reported to Electrical Utilities.
- 2. Industrial Safety and Fire Protection shall:
 - _____a. Establish safety policies for handling asbestos materials and ----- PCB items and materials.
 - b. Overview removal, handling, packaging, labeling, storing, and ------ disposal of radioactive and non-radioactive asbestos materials.
 - - a. Maintain asbestos disposal records for the Hanford Site.

ASBESTOS AND POLYCHLORINATED BIPHENYLS BISSUE a quarterly report that summarizes disposal of radioactive asbestos on the Hanford Site and forecasts dispoquantities for the next calendar year. C. Prepare and submit to DOE-RL the annual radioactive PCB stareport for the Hanford Site by June 1. d. Provide spill designations for PCB releases. 2. Provide "Chemical Waste Disposal Analysis" designating wastes and coordinating disposal. f. Provide assistance and direction for containment remediation of PCB spills. 4. Electrical Utilities shall: a. Ensure that all items and materials containing PCB under the cognizance are handled, controlled, and disposed of accordance with the requirements of this part. b. Provide approved storage for items and materials contain PCB. c. Maintain a data base for Site-wide inventory, inspect storage, and disposal records for PCB items and materical containing PCB.
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c. Maintain a data base for Site-wide inventory, inspect
storage, and disposal records for PCB items and mater
d. Maintain an updated registration of all PCB transform with the Hanford Fire Department and responsible build managers.
e. Prepare and submit to DOE-RL by June 1 the annual radioactive PCB status report for the Hanford Site.
Frovide timely maintenance and repair of leaks in PCB PCB-contaminated transformers in accordance with applications.
g. Provide spill control and cleanup services in response to spills that require corrective actions beyond the abilities responsibilities of the operating facilities.

h. Notify Environmental Protection of any spill or release of materials that contain PCB.
i. Provide support to Hanford Site PCB Task Force.

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- - 6. Regulatory Compliance shall:
 - a. Establish standards necessary to ensure that WHC facilities and equipment are in compliance with applicable DOE and Federal regulations.
 - b. Provide support to the Hanford Site PCB Task Force.

--- 7. Environmental Assurance shall:

- Assist building managers, operating managers, and support personnel in implementing and meeting the requirements of this part. Notify the Area or Building Emergency Director if the spill represents an exposure risk or release to the environment.
- reports.
 - c. Overview cleanup of spills or releases of PCB.
 - d. Overview storage and disposal of PCB items and materials.
 - e. Provide support to the Hanford Site PCB Task Force.

-------4.0 -- REQUIREMENTS

_ - _ _ 4.1 GENERAL REQUIREMENTS FOR WASTE ASBESTOS MATERIALS

Environmental requirements concerning handling and disposal of asbestos materials are based on the ability of the material to become airborne. Asbestos materials are divided into two general categories: friable asbestos and non-friable asbestos. Friable asbestos is defined as material containing more than 1% asbestos by weight that hand pressure can crumble, pulverize, or reduce to powder when dry. If not handled properly fibers of friable asbestos can become airborne, resulting in a potential hazard to personnel and a potential release to the environment.

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Asbestos materials must also be controlled according to whether the material is radioactive or non-radioactive. The following requirements apply to handling, packaging, storing, and disposing of radioactive and nonradioactive asbestos materials on the Hanford Site.

- 1. All work involving removing, handling, packaging, labeling and storing asbestos materials shall be conducted in accordance with the requirements of WHC-CM-4-3, Industrial Safety Manual, Standard C-3, "Asbestos Control."
- 2. All work involving removal, handling, packaging, labeling, storing, and disposing of friable asbestos shall be controlled to prevent any visible release of asbestos fibers to the environment. This may be accomplished by the use of water sprays, ventilation filtration equipment, proper packaging techniques, and other means of controlling airborne particulate materials.

 3. All non-radioactive waste asbestos materials (including friable and non-friable forms) shall be disposed of in accordance with the
 - requirements contained in Part G of this manual and Fleet
 Operations, Transportation and Maintenance Management Standard Operating Procedure 25.2, "Disposal of Asbestos at Central Landfill."
- friable forms) shall be disposed of in accordance with the requirements contained in Part H of this manual and WHC-EP-0063, Hanford Radioactive Solid Waste Packaging, Storage, and Disposal Requirements.

Basis: The requirements in 1 through 4, above, reflect the requirements 145, 146, 147, 152, 154, 155, and 156, and DOE-RL Order 5480.10A.

4.2 GENERAL REQUIREMENTS FOR ITEMS AND MATERIALS CONTAINING PCB

Items and materials containing Polychlorinated Biphenyls (PCB) are regulated under 40 CFR 761. The following definitions will be used to describe the regulatory limits for PCB items and materials on the Hanford

<u>PCB Materials</u>. PCB materials include oils, liquids, rags, absorbent materials, etc. that contain PCB in concentrations of 2 ppm (or 1 ppm depending on test method) or greater.

PCB-Contaminated Items. PCB-contaminated items include transformers,circuit breakers, switch-gear, reclosers, voltage regulators, etc. that ---- contain PCB in concentrations of 50 ppm or greater but less than 500 ppm. Mineral oil transformers that have never been sampled for PCB are classified as "PCB-contaminated" until further testing is completed.

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<u>PCB Container</u>. Any package, can, bottle, bag, barrel, drum, tank, or other device that contains PCBs or PCB articles and whose surface(s) has been in direct contact with PCBs.

rectifiers, switch-gear, capacitors, light ballasts, etc.) that contain PCB rectifiers of 500 ppm or greater.

_____The following requirements apply to using, handling, packaging, storing, ____and_disposing of materials and items containing regulated concentrations of | PCB.

- 1. The following equipment, materials, and locations shall be clearly labeled with the large (6" x 6") PCB ML label. Where the PCB item is too small to accommodate the large ML label, a smaller PCB ML label may be used.
 - a. All drums containing PCBs.
 - greater PCB.
 - c. All PCB transformers.
- _____d. All PCB large (containing three pounds or more of dielectric fill the fill t
 - e. All vehicles used to transport more than 45 Kg (99.4 lbs) of PCB materials or one or more PCB transformers (labeled on all four sides).
- - g. All doors, fences, hallways, or means of entrance (excluding --- grates and manhole covers) to a PCB transformer.

Basis: These requirements reflect the requirements found at

- - a. PCB transformers and large capacitors in a location that poses an exposure risk to food and feed.
- b. Hydraulic and heat transfer systems with fluids that contain 50 ppm PCB or greater.

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- c. Large capacitors (both high and low voltage), unless they are located in a restricted-access electrical substation or a restricted-access indoor installation that provides spill containment.
 - - e. The installation of a PCB transformer in or within 30 meters of a commercial building or onsite office building.

2 quarts fluid that have not been replaced or flushed since January
1983 shall be tested for PCB.

Basis: This requirement reflects the requirement found at 40 CFR 761.30(d) and (e). The "2 quarts" threshold is based on small hydraulic systems, as found on vehicles, which would be changed every year as part of the vehicle preventive maintenance and would not have to be tested because after January 1, 1983 no more PCB fluids would be purchased.

- - b. The principal constituent of the dielectric fluid in the transformer(s).
- _____c. The type of transformer installation(s).
- The name and telephone number of the person to contact in the

Basis: These requirements reflect the requirements found at 40 CFR 761.30(a)(1)(vi).

- 5. Copies of the inspection forms for the following are to be forwarded to Electrical Utilities and Environmental Protection for transformers at 165-KE and KW and 105-KE and KW, and rectifiers at 189-D.
- -- a. PCB transformers with risk reduction measures (containing less than 60,000 ppm PCB and/or provided with spill containment) shall be visually inspected at least annually.

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- response to a spill or leak of PCB.
 - a. All visible traces of the spilled material shall be removed.
- b. Depending on the location of the leak and the concentration of the spilled material, different cleanup procedures and a verification sample may be required. These requirements can be obtained from Electrical Utilities and/or Environmental Protection.
 - c. A cleanup certification sample shall be collected and analyzed to verify that residual PCB concentrations are below the levels determined in paragraph 6(b) above.
- materials shall be packaged, labeled, and disposed in accordance with paragraph 4.3.
- the equipment manager to ensure that the leaking equipment was been adequately repaired.

Basis: These requirements reflect the requirements found at 40 CFR 761.125.

- 7. The following records and reports are required.
- - b. Records of inspection and maintenance history for all PCB transformers. The records shall be maintained for at least three years after the equipment has been disposed and shall contain the following information.
 - (1) The location of the transformer.
- (2) The date of each visible inspection and the name of the inspector.

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- (3) Information concerning any leaks or spills associated with the transformer. This information should include the date and location of the leak, an estimate of the spilled volume, and the date and description of any cleanup, containment, repair, or replacement.
- - (1) The dates when PCB materials and PCB items were removed from service, placed into storage for disposal, and transported for disposal.
- (2) The total quantities of PCB materials and PCB items

 removed from service, placed into storage for disposal,
 and transported for disposal.

 (3) The location of the initial disposal or storage facility
 for PCB materials and PCB items removed from service.
- and remaining in service and the total weight of PCBs contained in them.
-(5)..PCB-container contents identified.
- remaining in service.

the requirements in 40 CFR 761.180. The requirements in paragraph 7.b above reflect the requirements in 40 CFR 761.30.

4.3 TEMPORARY STORAGE OF PCB MATERIALS AND PCB ITEMS

_ ... _ ____ The following PCB items may be stored for up to 30 days in a temporary ----- storage area, provided that a notation is attached to the PCB item or

- 1. Non-leaking PCB articles and PCB equipment.
- 2. Leaking PCB articles and PCB equipment if the PCB items are placed in a non-leaking PCB container that contains sufficient absorbent material to absorb any liquid PCBs remaining in the PCB items.
 - 3. PCB containers containing non-liquid PCBs such as contaminated soil, rags, and debris.

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4. PCB containers containing liquid PCBs at a concentration between The provided a spitting Prevention, Control and Countermeasure Plan (SPCC) has been prepared for the temporary _______container must bear a notation that indicates that the liquids in the drum do not exceed 500 ppm PCB.

Basis: These requirements reflect the requirements found in 40 CFR 761.65(c)(1).

4.4. STOPAGE FOR DISPOSAL FACILITIES

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WHC-operates a Storage For Disposal (SFD) Facility at 212-P Building located in the 200-N Area. The facility is managed and operated by Electrical Utilities. The SFD facility shall be operated in a manner that complies with the following requirements.

- at the SFD facility. No stored item or material shall remain in -----storage for more-than-9 months from the date when it was first placed into storage, including temporary storage.
- _____2. The facility shall have the following minimum design features.
- _____a, An adequate roof and walls to prevent rain water from reaching items and materials in storage.
- <u>language of the continuous, smooth, impervious floor area that contains no</u> other openings that would allow release of liquids.
- c. Continuous, smooth, impervious curbing that is at least 6 inches in height and capable of containing two times the volume of the largest article in storage or 25% of the total ----volume in storage, whichever is greater.
- the SFD facility shall not be located on the 100-year flood. والمستحددة المعاددة ال <u>plain.</u>

These requirements reflect the requirements found at Basis: **40** CFR 761.65(b).

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5.0 REFERENCES

- 1. DOE-RL Order 5480.10A, "Industrial Hygiene Program."
- 2. 40 CFR 61, Subpart M, "National Emission Standards for Asbestos."
- - 4. WHC-CM-4-3, <u>Industrial Safety Manual</u>.
 Standard C-1, "Polychlorinated Biphenyls."
 Standard C-3, "Asbestos Control."
 - 5. WHC-EP-0063, Hanford Radioactive Solid Waste Packaging, Storage, and Disposal Requirements.

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WHC-CM-7-5 Manual WESTINGHOUSE HANFORD COMPANY -- -Part Z, REV 1 Section 1 of 3 Page -- Effective Date --- August 10, 1989 ENVIRONMENTAL-COMPLIANCE MANUAL Environmental <u>Organization</u>Division <u>Annroved</u> by -SURPLUS-FACILITIES DECONTAMINATION R. E. Lerch, Manager AND DECOMMISSIONING Environmental Division

1.0 PURPOSE

The purpose of Part Z is to establish standards and guidelines for the management, decontamination, and decommissioning of new and surplus facilities under the control of WHC which are contaminated with radioactive and or dangerous wastes.

2.0 SCOPE

Facilities shall be subject to the provisions of this Part when they are declared surplus and have been accepted into a decommissioning program.

3.0 RESPONSIBILITIES

- range ny rangement shall:
- - b. Provide routine surveillance and maintenance of surplus facilities to assure ongoing compliance.
- -----a. Prioritize surplus facilities under their control for remedial action.
- b. Assure that plans and programs for decontamination and decommissioning (D&D) comply with all applicable standards in this manual.
- understood.

 Leading of the environmental review process for each facility with regard to RCRA; CERCLA/SARA; NEPA, and State Regulations is understood.
 - d. Conduct the decommissioning project in accordance with a project plan approved by DOE-RL. Deviations to the plan will require the same level of approval as the original.

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- e. Obtain_approval to demolish a facility from DOE-RL in accordance with DOE Order_4300.1B, "Real Property and Site Development Plans."
 - f. Prepare report documenting radiological and hazardous materials status of the facility, including allowable residual contaminant level analyses, if applicable.
 - g. Prepare a post decommissioning final report.
 - h. Provide for long term surveillance and maintenance, when ----necessary.
 - i. Comply with the release criteria of Part K of this manual.
 - Quality Assurance shall:
 - Assure D&D activities are conducted consistent with WHC-CM-6-7,
 Environmental Restoration Quality Assurance Program Plan
 Manual.
- b. Provide to the process described in paragraph 4.0 quality in assurance elements for each activity, investigation, or project.
- 4. Project Management shall ensure that planning for facility decommissioning is considered during the Conceptual Design Report stage of a new or modified facility.

_______5.--Safety-shall:

- a. Review and approve safety analysis documentation for decontamination and decommissioning activities as required.
 - b. Provide independent safety review to ensure that all necessary standards for industrial safety, industrial hygiene, fire protection, and radiological safety are observed.

4.0 GENERAL REQUIREMENTS

The requirements for decontaminating and decommissioning radioactively contaminated facilities are described in the DOE manual, "Defense Decontamination and Decommissioning Program Management Plan." This document identifies the activities required for the management, surveillance and maintenance, and decontamination and decommissioning of surplus facilities managed under the DOE Defense Program.

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- 1. DOE Order 4300.1B, "Real Property and Site Development Plans."
- 2. DOE Manual (unnumbered), "Defense Decontamination and Decommissioning Program Management Plan."
- 3. WHC-CM-6-7, <u>Environmental Restoration Quality Assurance Program</u>
 Plan Manual.

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... Manual WHC-CM-7-5 Appendix B, REV 1 Section 1 of 3 Page August 10, 1989 Effective Date **ENVIRONMENTAL COMPLIANCE MANUAL** Organization Environmental ___Division Approved by TITLE: MAXIMUM CONTAMINANT LEVELS R. E. Lerch, Manager **Environmental Division**

APPENDIX B

1.0 PURPOSE

The purpose of this Appendix is to provide a listing of the maximum contaminant levels (MCLs) that are utilized as limits and thresholds by the requirements of this manual.

2.0 SCOPE

Maximum contaminant levels were derived for the purpose of establishing acceptable levels of pollutants in public drinking water systems. These levels were initially applied at the well head, and ensured that the community potable water would be safe for consumption by people of all age groups. After their original printing, the MCL values were utilized by several state and Federal laws and agencies as threshold levels in groundwater when determining unacceptable impact to the environment from industrial waste discharges to the soil. Other considerations are also necessary when determining acceptable impact to the environment from liquid effluent sources, and are taken into consideration in the text of this manual.

For the purposes of compliance with the requirements of this manual, the MCL values can be considered the point below-which a liquid is no longer considered regulated and above which a liquid must be controlled as a regulated material.

3.0 PRIMARY MAXIMUM CONTAMINANT LEVELS

Arsenic	0.05	mg/1
Barium	1.0	mg/1
Cadmium	0.01	mg/1
Çhromium	0.05	mg/l
Fluoride	2.0	mg/1
 Lead	0.05	mg/l
Mercury	0.002	mg/1
Nitrate (as N)	10.0	mg/1
 -Seleniūm`	0.01	mg/1
 "Silver	0.05	ma/1

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. 2,4-D	0 <u>.1</u> 0	mg/l			
Endrin	0.0002				
Lindane	0.004	mg/1			
Methoxychlor		mg/1			
Total Trihalomethanes		mg/1			
	0.005				
2,4,5-TP	0.01	- · · -			
	0.005	. ,			
Carbon Tetrachloride		<u> </u>			
Para-dichlorobenzene					
	0.005				
1,1-dichloroethylene					
1,1,1-trichloroethane					
Trichloroethylene					
Vinyl Chloride		mg/l			
Gross-alpha particle ac			15.0	pCi/l	
(including radium-226, i Radium 226 and 228	out exclud	ing uranium)	E 0	pCi/l	
Gross beta particle act				mrem/yea	

4.0 SECONDARY MAXIMUM CONTAMINANT LEVELS

Chloride	250.0	mg/l
Color	15.0	units
Çopper	1.0	<u>mg</u> /1
Iron	0.3	mg/1
Manganese	0.05	mg/1
Sulfate	250	mg/1
Total dissolved solids	500.0	mg/1
Zinc	5.0	mg/1
Specific conductivity	700.0	jumhos/cm
Foaming Agents	0.5	mg/l
0dor	3	Threshold odor number
Corrosivity	Non-Corrosive	
pH	6.5 -	8.5

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5.0 REFERENCES

- - 2. 40 CFR 141, "National Primary Drinking Water Regulations."

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